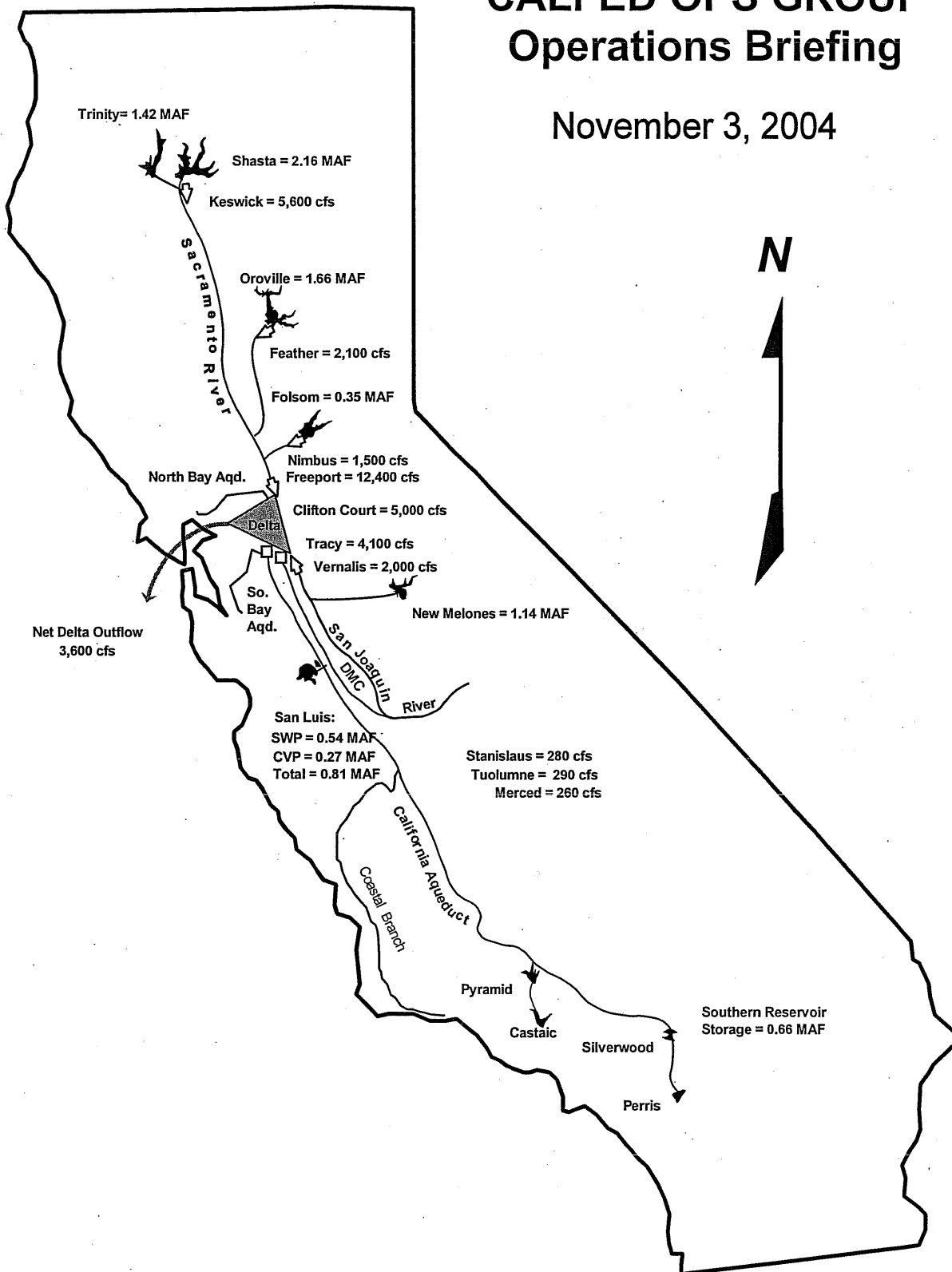


CALFED OPS GROUP Operations Briefing

November 3, 2004



CURRENT SWP/CVP OPERATIONAL STATUS

DATA AS OF
November 3, 2004

O&M, OSC

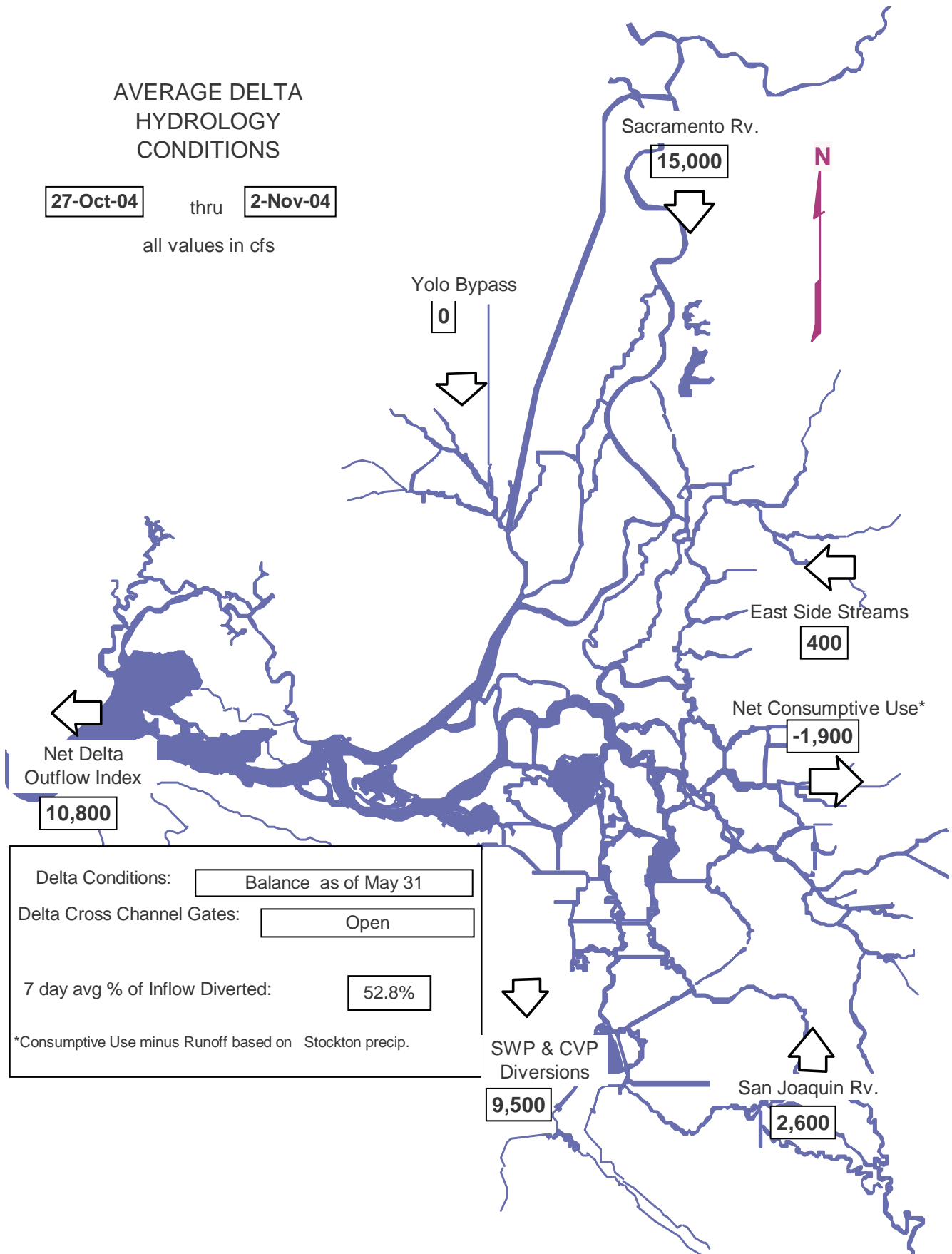
AVERAGE DELTA
HYDROLOGY
CONDITIONS

27-Oct-04

thru

2-Nov-04

all values in cfs



AVERAGE DELTA WATER QUALITY CONDITIONS

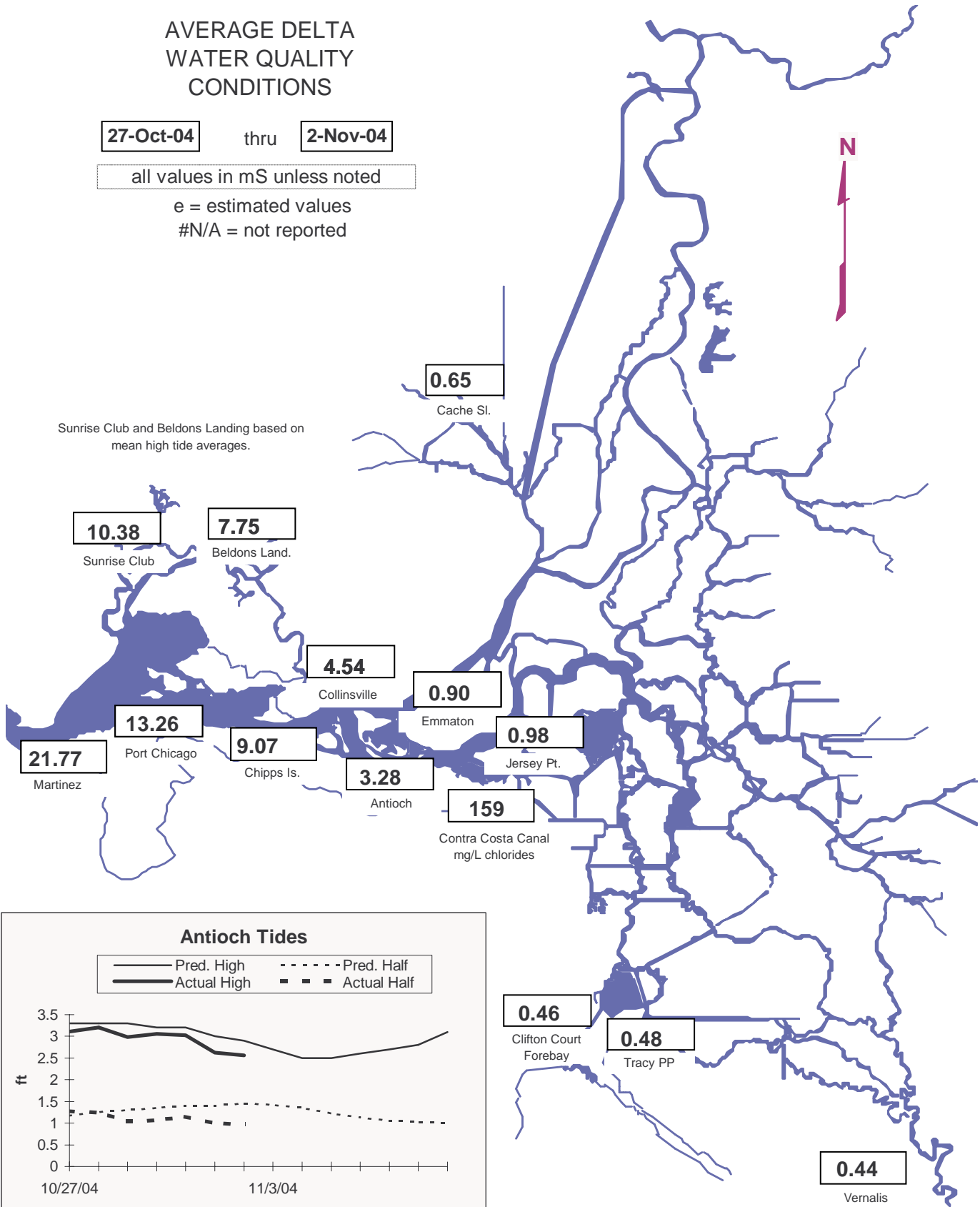
27-Oct-04 thru **2-Nov-04**

all values in mS unless noted

e = estimated values

#N/A = not reported

Sunrise Club and Beldons Landing based on
mean high tide averages.



DRAFT

Bay-Delta Standards

Contained in D-1641

DRAFT

CRITERIA	Nov 04	Dec 04	Jan 05
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FLOW/OPERATIONAL

<ul style="list-style-type: none"> Fish and Wildlife SWP/CVP Export Limits Export/Inflow Ratio Minimum Outflow - mon. - 7 day avg. Striped Bass Survival Suisun Marsh Habitat Protection Outflow, X2 River Flows: @ Rio Vista - min. mon. avg. - 7 day average @ Vernalis: Base -min. mon. avg. - 7 day average Pulse Delta Cross Channel Gates 			
	65%		
	4500 cfs	4500 cfs	4500 cfs
	3500 cfs	3500 cfs	3500 cfs
	4500 cfs	4500 cfs	
	3500 cfs	3500 cfs	
	Conditional: For the Nov-Jan period, DCC gates may be closed for up to a total of 45 days		

WATER QUALITY STANDARDS

<ul style="list-style-type: none"> Municipal and Industrial All Export Locations Contra Costa Canal 			
	<= 250 mg/l Cl		
	<= 150 mg/l for 175 days (days have been met)		
<ul style="list-style-type: none"> Agriculture Southern Delta 			
	30-day running average EC <= 1.0 mS		
<ul style="list-style-type: none"> Fish and Wildlife Suisun Marsh Salinity 			
	15.5 mS/cm for Eastern / 16.5 for Western Mars	15.5 mS/cm	12.5 mS/cm

Water Year Classification: (May 1 forecast)

SRI (40-30-30 @ 50%) = 7.70 (Below Normal)

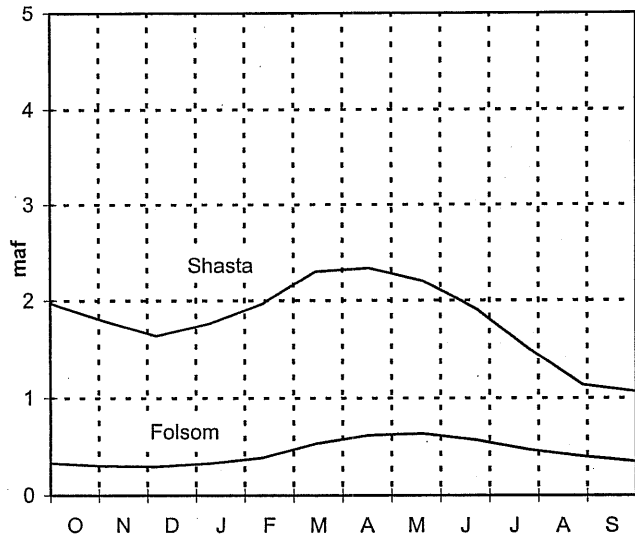
SJV (60-20-20 @ 75%) =2.2 (Dry)

SWP & CVP WY 2005 Forecasted Operations.

(based on 10/1/04 storages and 6-1-04 water supply update)

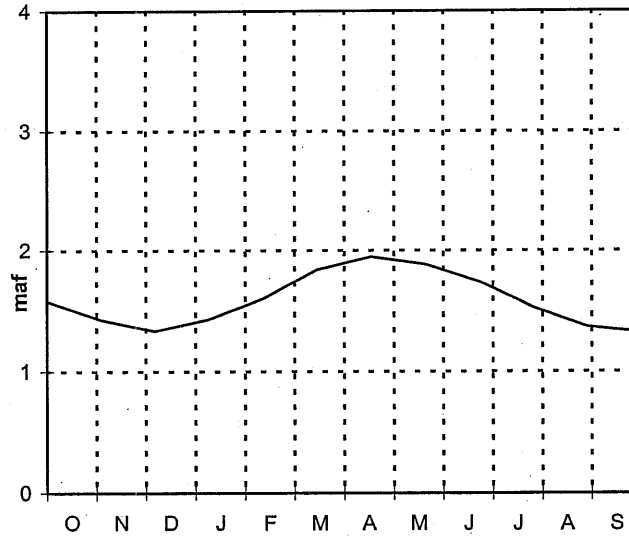
Upstream CVP storage

— 90% Excd.



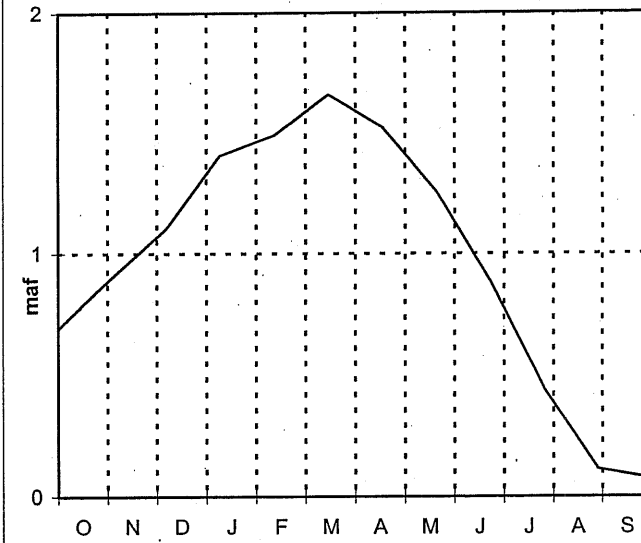
Lake Oroville storage

— 90% Excd.



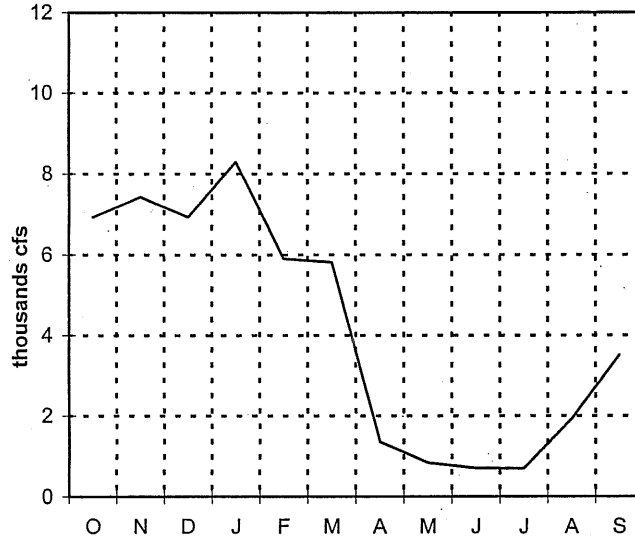
San Luis Reservoir Storage

— 90% Excd.



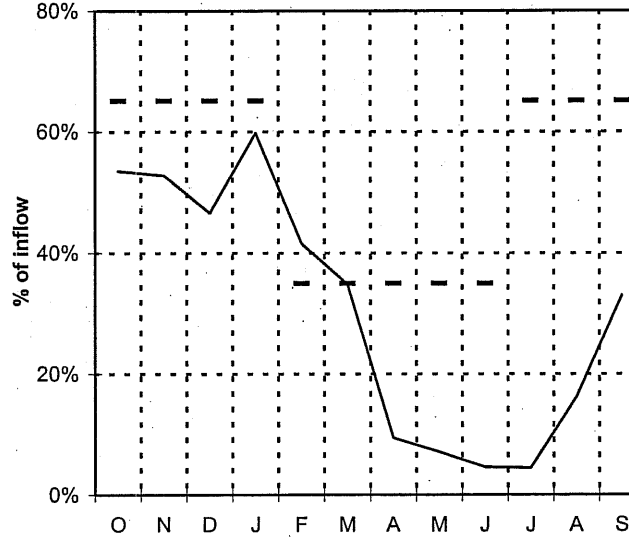
Delta Exports

— 90% Excd.



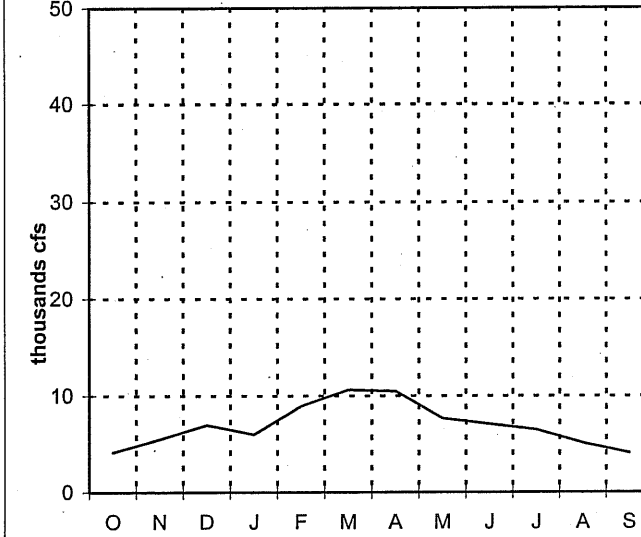
Delta Export/Inflow percent

— 90% Excd.



Net Delta Outflow Index

— 90% Excd.



Flows are monthly averages.

WY 2003/2004 EWA Accounting Summary
Based upon October Operations Study - 90% Exceedance Hydrology
Assumptions: SWP Allocation - 65%; NOD Purchases - 120 TAF; SOD Purchases - 35 TAF

EWA NOD and SOD Storage (+ = Acquisitions) and (- = Releases)																	
1	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NOD (Oroville) ⁰	0.398					-0.398 ³											0
NOD (YCWA/PCWA)									102 ⁴	20 ⁵							122
YCWA ²											-41	-43	-17	-0.9			-102
Losses/Gains ¹²												-14	-16				-29
PCWA (released into Folsom)													-7.9	-4.7	-7.4		-20
SOD (KCWA/SCVWD)									35 ⁶	-12 ⁶	-12 ⁶	-12 ⁶					0
SOD (MWD)																	0

EWA Asset Acquisition in SWP San Luis ¹																	
2	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0
EWA share of SWP gain			0.19			0.20											0.40
Project Pumping to reduce EWA debt																	0
JPOD using excess flows																	0
JPOD using NOD storage																	0
Xfer NOD - Sacramento River ²											14 ⁴	6 ⁴	1.1	0.9 ⁴			22
Xfer NOD - San Joaquin River ²																	0
SOD SWP Surface/GW Purchases										12 ⁶	12 ⁶	12 ⁶					35
Exchange of EWA assets																-9 ¹¹	-9
Groundwater pumping SOD																	0
Exchange from CVP to SWP in SL																	0
Total Monthly EWA Assets		0	0	0	0	0	0	0	0	12	26	17	1	1	0	-9	48

EWA Asset Acquisition in CVP San Luis ¹																	
3	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0
Project Pumping to reduce EWA debt							0.202										0
JPOD using excess flows																	0
JPOD using NOD storage											27 ⁴	24 ⁴			13.4 ⁵	4.6 ⁵	69
Xfer NOD - Sacramento River ²																	0
Xfer NOD - San Joaquin River ²																	0
SOD CVP Surface/GW purchases																	0
Exchange of EWA assets																	0
Groundwater pumping																	0
Exchange from SWP to CVP in SL																	0
Total Monthly EWA Assets	0	0	0	0	0	0	0	0	0	0	27	24	0	0	13	5	69

EWA Expenditures at the Export Pumps																	
4	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP export cuts							-0.45 ¹⁰	-6 ⁷	-52 ⁷								-58
CVP export cuts								-7 ⁸	-59 ⁸								-66
Total Expenditures	0	0	0	0	0	0	0	-13	-111	0	0	0	0	0	0	0	-124

EWA End-of-Month Incremental Storage Changes																	
5	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP in SL (without Source Shift)	0.057	0.000	0.193	0.000	0.000	0.203	-0.453	-6	-52	12	26	17	1	1	0	-9	-10
CVP in SL	-0.202	0.000	0.000	0.000	0.000	0.000	0.202	-7	-59	0	27	24	0	0	13	5	3
NOD Storage	0.398	0	0	0	0	-0.398	0	0	102	20	-41	-43	-24	-6	-7	0	0
SOD Storage (non-S.L.)	0.000	0	0	0	0	0	0	0	35	-12	-12	-12	0	0	0	0	0
Total Incremental Storage Changes	0.253	0	0	0	0	0	0	-13	26	20	0	-14	-23	-5	6	-4	-7

EWA End-of-Month Storage Balance at Various Sites																	
6	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP in SL (without Source Shift)	0.057	0.057	0.250	0.250	0.250	0.453	0.000	-6	-58	-46	-20	-3	-2	-1	-1	-10	
CVP in SL (without Source Shift)	-0.202	-0.202	-0.202	-0.202	-0.202	-0.202	0.000	-7	-66	-66	-39	-15	-15	-15	-2	3	
NOD Storage	0.398	0.398	0.398	0.398	0.398	0.000	0	0	102	122	81	37	13	7	0	0	
SOD Storage (non-S.L.)	0.000	0	0	0	0	0	0	0	35	23	12	0	0	0	0	0	
EWA Asset Balance	0.253	0	0	0	0	0	0	-13	13	33	33	19	-4	-9	-3	-7	

San Luis Reservoir Storage Conditions																	
7	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Storage (base case) ⁹		962	1122	1316	1664	1878	2020	1781	1337	832	552	516	687	804	900	1102	
SWP		608	613	616	809	971	1067	944	732	481	390	412	516	523	480	492	
CVP		355	509	701	856	907	953	837	606	351	162	105	172	281	420	610	
Encroachment																	
Total Storage (EWA case)		962	1123	1317	1664	1878	2020	1768	1214	720	493	498	670	788	897	1095	
MWD Source Shifting																	
Storage (with MWD source shifting)		962	1123	1317	1664	1878	2020	1768	1214	720	493	498	670	788	897	1095	

⁰ 2004 NOD Purchases = 100(YCWA) + 20(PCWA).

¹ Aqueduct conveyance and evaporation losses are not included.

² Carriage water loss applies to water transfers from the Sacramento River (assumed to be 20% until modeling results indicate otherwise);

a 10% conveyance loss applies to water transfers from the San Joaquin River.

Carriage water loss in WY 2004 (between July and September) was 0%.

For the Fall 2004 transfers (between October and December), a carriage water loss of 10% is assumed until modeling results indicate otherwise.

³ The SWP spilled ~ 400 af of EWA water stored in Oroville during flood control operations.

⁴ 2004 YCWA Transfer (Joint place of use)

⁵ 2004 PCWA Transfer (Joint place of use) - may move first of November (250 cfs/day).

⁶ 2004 SOD Transfers - 35 TAF from KCWA (SWP place of use)

⁷ The SWP costs for VAMP and post-VAMP shoulder are about 2.6 TAF (for 4/15-4/30 = -5.7 TAF; 5/1-5/15 = +3.0 TAF) (cumulatively) and 55 TAF, respectively.

⁸ The CVP costs for VAMP and post-VAMP shoulder are about 17 TAF and 49 TAF, respectively.

⁹ Based upon DWR's 90% (90% Fall) allocation study (dated 10/2004).

¹⁰ Conversion from EWA to Project water since San Luis Reservoir was physically full on March 30, 2004.

¹¹ A pilot Wet/Dry Exchange Program between EWA and MWD is being negotiated.

¹² YCWA released additional water for the EWA (1.7 TAF)

August: Due to water level problems in the Delta, EWA water could not be exported (9 days) (12.8 TAF)